

The predictive regression equation computed from 333 in situ measurements was compared with the equations developed using the slope derived from source water characteristics and the temperature of the ocean water used as the T-intercept. The nitrate concentrations for 11.85° and 14.0°C were computed.

The best fit linear regression (correlation, r = -0.93) based on underway in situ measurements was:

$$N = -3.24 T + 47.74.$$

where $N = \mu M$ nitrate and $T = {}^{\circ}C$ temperature. The predictive regression equation, assuming no thermal exchange with the environment, was:

$$N_1 = -3.7 T + 57.35$$

The second approximation which corrected for wind mixing and atmospheric thermal exchange was:

$$N_2 = -3.1 T + 48.05$$

a. Comparison of Predicted Nitrate Concentration to That Computed by Regression Analysis of Observed Data

The solution to the equations are as follows: for T_c of 11.85°C, N = 9.82 μ M, N_1 = 13.5 μ M, and N_2 = 11.3 μ M nitrate; for T_f of 14.0°C, N = 2.94 μ M, N_1 = 5.5 μ M, and N_2 = 4.7 μ M nitrate. The percentage of error $(\frac{N_1 - N}{N} \times 100)$ and $\frac{N_2 - N}{N} \times 100$, associated in predicting the nitrate concentration at the cold center or most recently upwelled water appears to be ca. +37% for the first approximation,

 N_1 , and <u>ca.</u> +15% for N_2 which accounted for wind mixing and thermal exchange. In the vicinity of the ocean front, the percentage of error increased; for $\rm T_{f}$ of 14.0°C, $\rm N_{1}$ had an error of \underline{ca} . +98% whereas N₂ had an error of \underline{ca} . +58%. In both hindcasts the nutrient concentrations predicted were higher than those computed from the equation based on in situ surface measurements. Both hindcasts also deteriorated in reliability proceeding away from the cold center of the fea-The predictive equation which corrected for wind mixing and thermal exchange with the atmosphere had significantly less error than the equation that did not. Because nitrate and temperature are nonconservative within the upper layer of the ocean, the 15% error derived from linear regression should be considered reasonable. In all, the longer the upwelled water is in contact with the surface layer of the ocean, the more complex the interactions with the physical and biological environment may become, and the more unrealistic the simple predictive equations.

b. Summary of Conditions for Which This Test Appeared Satisfactory

This hindcast was applied only to a shallow upwelling system which satellite history showed to be in an initial stage of development. The prediction was based on knowledge of the temperature of the sea surface within the coldest thermal pattern detected, surface temperature of the oceanic front detected by thermal patterns, a vertical temperature and nutrient profile within the upper 200m of the ocean seaward of the oceanic front, and atmospheric parameters to hindcast ocean-atmosphere thermal exchange [James, 1966]. In this special case, given this limited ground truth, it was possible to hindcast within 15% error the maximum nutrient concentration in an upwelling system detected by satellite imagery. It therefore seems reasonable to assume that at least the major patterns of nutrient distributions can, with further research, be inferred using satellite imagery and limited ground truth (i.e., data from buoys and AXBT's).

V. CONCLUSIONS

- 1. Inference of nutrient distribution by satellite detected upwelling systems is feasible.
- 2. Active upwelling systems are expected to have strong inverse linear correlations between nutrients and temperature.
- 3. The nutrient front position can be approximated closely by the thermal oceanic front.
- 4. The nutrient distribution within a feature can not be related to the sharpness of the thermal front.
- 5. To predict nutrient distributions, ground truth as well as satellite detected thermal patterns are required.
- 6. A linear regression can be used to forecast nutrient maxima for upwelling systems in the initial stage of development aided by only limited in situ data.
- 7. The approximation of nutrient concentrations by linear regression can be improved by estimating the effects of wind mixing and thermal exchange with the atmosphere.
- 8. With greater knowledge of source water characteristics (from in situ monitoring or historical data), stage of development (inferred from satellite images and in situ monitoring), and dynamic processes (wind mixing, advection, and heat transfer) a forecast of nutrient distributions with a surface thermal feature could be made.

APPENDIX A

Listing of Surface Data: Time, Latitude, Longitude, Elapsed Distance, Nitrate, Phosphate, Nutrient Ratio, ATP, AATP/ATP, Chlorophyll, Temperature

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S E XII )	ATP	0 - 5 4	0.36	0.33	0.42	0.23	0.19	0.38
MESOSCALE (CRUISE XII	ATP No/L	291.0	164.0	146.0	133.0	205.0	199.0	351.0
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SE XII )	ATP	0.40	0.40	0.29	0.22	0.24		0.32	0.31	0.23
ALE (CRUIS	A1P NG/L 346.0	378.0	320.0	139.0	240.0	159.0	352.0	135.0	103.0	279.0
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SE XII)	AATP ATP O.24	0.24	0.16		0.33	0.47
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SE XII )	AATP			0.36			0.42			0.41			0.33			17.0			0.28	:		0.25			0.28		0.23		
ALE (CRUISE XII	ATP NG/L 5/20	<b>:</b> ;		327.0			332.0			455.0			675.0			360.0			0.459			584.0			261.0		434.0		
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SE XII)	ATP ATP	0.23	0.14	0.25		0.33	0.32
ALE CCRUISE XII	A1P NG/L 183.0	146.0	231.0	234.0	223.0	334.0	568.0
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Sf XII)	ATP ATP ATP ATP C. 22	0.23	0.11	0.16
ALF (CKUI	AIP NG/L 463.0 537.0	217.0	160.0	134.0
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(CRUISE XII )	A ATP ATP 6.61	0.01	0.21	0.22	66.0			11.0
	A1P NG/L 76.0	115.0	147.0	140.0	128.0			122.0
CHEMICAL MESOSCALE	1237 NO.3 7 PG 4 1 - 2 PG 4 2 - 5 - 5 PG 4 2 - 5 PG 4 2 - 5 PG 4 3 - 5 PG 4 4 PG 4 5 PG	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7 P P P					
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APPENDIX B

Listing of Nansen Cast Data: Station, Time, Latitude Longitude, Depth, Salinity, Temperature, Density, Nitrate, ATP

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## APPENDIX C

## Computer Programs

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22.	Mr. Ronald Nagle Naval Environment Prediction Research Facility Monterey, CA 93940	1
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24.	Mr. Jerry Norton, Code 68 g Department of Oceanography Naval Postgraduate School Monterey, CA 93940	1
25.	Mr. Dana Austin, Code 68g Department of Oceanography Naval Postgraduate School Monterey, CA 93940	1
26.	Ms. Bonita Hunter, Code 68 g Department of Oceanography Naval Postgraduate School Monterey, CA 93940	1
27.	Ms. Andrea McDonald, Code 61 g Department of Chemistry Naval Postgraduate School Monterey, CA 93940	1
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29.	Commander Area ASW Forces Sixth Fleet LCDR John W. Conrad U.S. Naval Support Activity, Naples FPO New York 09521	1

30.	LT Carol Jori, Code 35 Department of Oceanography Naval Postgraduate School Monterey, CA 93940	1
31.	LT Sherman H. Bronsink HELSUPPRON Three Naval Air Station North Island San Diego, CA 92135	1
32.	Commandant G-PTE-1 United States Coast Guard Washington, D.C. 20590	2
33.	Commanding Officer USCG Oceanographic Unit Bldg. 159-E, Navy Yard Annex Washington, D.C. 20593	1
34.	LT Walter E. Hanson USCG Oceanographic Unit Bldg. 159-E, Navy Yard Annex Washington. D.C. 20593	3

